

Contents

Preface	vii
Armed crown ether complexes in supramolecular assembly	
H. Tsukube	1
Metal complexes of bibrachial Schiff base macrocycles	
S.R. Collinson and D.E. Fenton	19
Photocontrol of ionic conduction by photochromic crown ethers	
K. Kimura	41
Transition metal-assembled multiporphyrinic systems as models of photosynthetic reaction centre	
J.-P. Collin, A. Harriman, V. Heitz, F. Odobel and J.-P. Sauvage	63
Synthesis and metallophilic properties of troponoid thiocrown ethers	
A. Mori, K. Kubo and H. Takeshita	71
Alkylphosphoric acid armed crown ethers having a specific cation binding ability	
Y. Habata and S. Akabori	97
Preparation and structures of supramolecules between cyclodextrins and polymers	
A. Harada	115
New class of lithium ion selective crown ethers with bulky decalin subunits	
K. Kobiro	135
Regulation of ion recognition by utilizing information at the molecular level	
T. Nabeshima	151
Cation binding by thallium(I) selective crown ethers	
M. Ouchi and T. Hakushi	171
Supramolecular structure in extramembraneous antennae of green photosynthetic bacteria	
H. Tamiaki	183
Preparation of chiral and <i>meso</i> -crown ethers incorporating cyclohexane-1,2-diol derivatives as a steric barrier and their complexation with chiral and achiral amines	
K. Naemura, Y. Tobe and T. Kaneda	199

Carbon dioxide activation by aza-macrocyclic complexes J. Costamagna, G. Ferraudi, J. Canales and J. Vargas	221
Transition-metal-directed assembly of well-defined organic architectures possessing large voids: from macrocycles to [2]catenanes M. Fujita and K. Ogura	249
Artificial-signaling receptors for biologically important chemical species M. Inouye	265
1,10-Phenanthroline derivatives as ionophores for alkali metal ions H. Sugihara and K. Hiratani	285
Macrocyclic pseudopeptides containing <i>N,N'</i> -ethylene-bridged-dipeptide units: synthesis, binding properties toward metal and organic ammonium cations, and conformations. The first step in designing artificial metalloproteins H. Miyake and Y. Kojima	301
Macrocyclic ligands with pendent amide and alcoholic oxygen donor groups R.D. Hancock, H. Maumela and A.S. de Sousa	315
Outer-sphere and inner-sphere complexation of cations by the natural ionophore lasalocid <i>A</i> L.F. Lindoy	349
Author index	369
Subject index	369

